| **Domain** | **Grade 5** | **Grade 6** | **Grade 7** |
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| Counting and Cardinality |  |  |  |
| Operations and Algebraic  Thinking | * Write and interpret numerical expressions. * Analyze patterns and relationships. |  |  |
| Number and Operations  in Base Ten | * Understand the place value system. * Perform operations with multi-digit whole numbers and with decimals to hundredths. |  |  |
| Number and Operations—Fractions | * Use equivalent fractions as a strategy to add and subtract fractions. * Apply and extend previous understandings of multiplication and division to multiply and divide fractions. |  |  |
| Measurement and Data | * Convert like measurement units within a given measurement system. * Represent and interpret data. * Geometric measurement: understand concepts of volume and relate volume to multiplication and to addition. |  |  |
| Ratios and Proportional  Relationships |  | * Understand ratio concepts and use ratio reasoning to solve problems. | * Analyze proportional relationships and use them to solve real-world and mathematical problems. |
| The Number System |  | * Apply and extend previous understandings of multiplication and division to divide fractions by fractions. * Apply and extend previous understandings of numbers to the system of rational numbers. | * Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers. |
| Expressions and Equations |  | * Apply and extend previous understandings of arithmetic to algebraic expressions. * Reason about and solve one-variable equations and inequalities. * Represent and analyze quantitative relationships between dependent and independent variables. | * Use properties of operations to generate equivalent expressions. * Solve real-life and mathematical problems using numerical and algebraic expressions and equations. |
| Functions |  |  |  |
| Geometry | * Graph points on the coordinate plane to solve real world and mathematical problems. * Classify two-dimensional figures into categories based on their properties. | * Solve real-world and mathematical problems involving area, surface area, and volume. | * Draw, construct and describe geometrical figures and describe the relationships between them. * Solve real-life and mathematical problems involving angle measure, area, surface area, and volume. |
| Statistics and Probability |  | * Develop understanding of statistical variability. * Summarize and describe distribution. | * Use random sampling to draw inferences about a population * Draw informal comparative inferences about two populations. * Investigate chance processes and develop, use, and evaluate probability models. |